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APPLICATION N	О.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,146	•	11/04/2003	Frank C. Smith JR.	50121	4832	
22929	7590	09/13/2004		EXAM	EXAMINER	
SUE Z. S		R, P.C. P SOUTH	DINH, TIE	DINH, TIEN QUANG		
SUITE 75		300111		ART UNIT	PAPER NUMBER	
HOUSTO	N, TX	77027		3644		
				DATE MAILED: 09/13/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

	1	Application No.	Applicant(s)	M
		10/701,146	SMITH, FRANK C	; .
Office Action Summa	ary –	Examiner	Art Unit	
		Tien Dinh	3644	
The MAILING DATE of this co Period for Reply	ommunication appea	ars on the cover sheet	with the correspondence ad	dress
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS CON - Extensions of time may be available under the p after SIX (6) MONTHS from the mailing date of - If the period for reply specified above is less tha - If NO period for reply is specified above, the ma - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	MMUNICATION. provisions of 37 CFR 1.136(this communication. In thirty (30) days, a repty w ximum statutory period will of or repty will, by statute, co months after the mailing d	(a). In no event, however, may ithin the statutory minimum of apply and will expire SIX (6) Mause the application to become	a reply be timely filed thirty (30) days will be considered timely ONTHS from the mailing date of this co ABANDONED (35 U.S.C. § 133).	
Status				
1) Responsive to communication	n(s) filed on <u>6/17/0</u> 4	<u>4</u> .		
2a)⊠ This action is FINAL.	•	ction is non-final.		
 Since this application is in co- closed in accordance with the 				merits is
Disposition of Claims				
4) ⊠ Claim(s) <u>1-11</u> is/are pending 4a) Of the above claim(s) 5) □ Claim(s) is/are allowed 6) ⊠ Claim(s) <u>1-11</u> is/are rejected. 7) □ Claim(s) is/are objected 8) □ Claim(s) are subject to	is/are withdrawr i. ed to.			
Application Papers				
9)☐ The specification is objected t	o by the Examiner.			
10)☐ The drawing(s) filed on	is/are: a)∏ accep	oted or b) objected	to by the Examiner.	
Applicant may not request that a	•			
Replacement drawing sheet(s) in 11) The oath or declaration is obje	•	<u>.</u>	- · · · · · · · · · · · · · · · · · · ·	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a a) All b) Some * c) Nor 1. Certified copies of the 2. Certified copies of the	ne of: priority documents priority documents copies of the priorit ernational Bureau	have been received. have been received ir y documents have be (PCT Rule 17.2(a)).	n Application No en received in this National	Stage
Attachment(s)				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing R Information Disclosure Statement(s) (PTO Paper No(s)/Mail Date 		Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTC)-152)

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, line 2, it is not understood what "only two significant horizontal surfaces" mean. It is vague and indefinite.

Claim 1, last line, "door type" is vague and indefinite.

Claim Rejections - 35 USC § 103

Claims 1-6, 8, 9, 10, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sutton et al in view of Weaver et al and Rutan 4641800.

Sutton et al teaches an aircraft with two engines P mounted on the wings, yaw control surfaces R on the wing, and having no empennage. Sutton et al is silent on the door at the rear of the fuselage and the canard with pitch control surface. However, Weaver et al teaches that a door at the end of the fuselage is well known in the art. Rutan discloses that canards with pitch control surfaces are well known in the art.

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It would have been obvious to one skilled in the art at the time the invention was made to have used doors at the end of the fuselage and canards in Sutton et al's system as taught by Weaver et al and Rutan 4641800 to easily load cargos and to increase maneuverability.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sutton et al as modified by Weaver et al and Rutan 4641800 as applied to claim 1 above, and further in view of Firestone.

Sutton et al as modified by Weaver et al and Rutan 4641800 discloses all claimed parts except for the tractor engine. However, Firestone discloses that tractor engines are well known in the art.

It would have been obvious to one skilled in the art at the time the invention was made to have used a tractor engine in Sutton et al's system as modified by Weaver et al and Rutan 4641800 and as taught by Firestone to increase thrust.

Response to Arguments

Please note that the term "type" is considered to be indefinite. See MPEP 2173.05(b) E.

The Examiner still maintains that the term "significant" in claim 1 is vague and indefinite. What qualify this as "significant?"

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the

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teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988) and In re Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the modification of the Sutton et al to include doors at the end of the fuselage and canards in Sutton et al's system as taught by Weaver et al and Rutan 4641800 to easily load cargos and to increase maneuverability in a valid motivation to combine. The addition of canard and doors at the rear would not destroy Sutton et al's teaching. The applicant is advised to look at In re Norman A. Meinhardt (157 USPQ 270) and In re Aller et al (105 USPQ 223) and In re McKee et al (37 USPQ 613) on the "negative" teaching of a reference. The fact that that Sutton et al discloses that there is difficulty in putting a canard in a flying wing aircraft would not prevent one skilled in the art from putting a canard in the flying wing aircraft to improve maneuverability. In any event, the Sutton et al reference teaches that in 1945, "canards" in front of an flying wing aircraft are well known in the art as pointed out by the applicant on section 1, lines 29-44. Therefore, the use of canards is very well known at least since 1945. The fact that one skilled in the art was having trouble in putting a canard in 1945 does not prevent one skilled in the art in 2003 from putting a canard in front of a flying wing aircraft. With computer controlled aircrafts with fly by wire, many aircrafts that were once deemed unflyable can now be flown. Please look at the B2 Boomber, for example. It was once considered that flying wing aircrafts were unstable. However, with the advent of smaller computer system that can be used in aircrafts, flying wing aircrafts can now fly safely.

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Please note that the Examiner is modifying the Sutton et al reference and not the Rutan or Weaver et al reference.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tien Dinh whose telephone number is 703-308-2798. The examiner can normally be reached on 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Carone can be reached on 703-306-4198. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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